

Read the operation instruction carefully before installation

LOAD ISOLATION SWITCH YGL SERIES OPERATION INSTRUCTION



No.ZXGLCN15102802

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1. USAGE

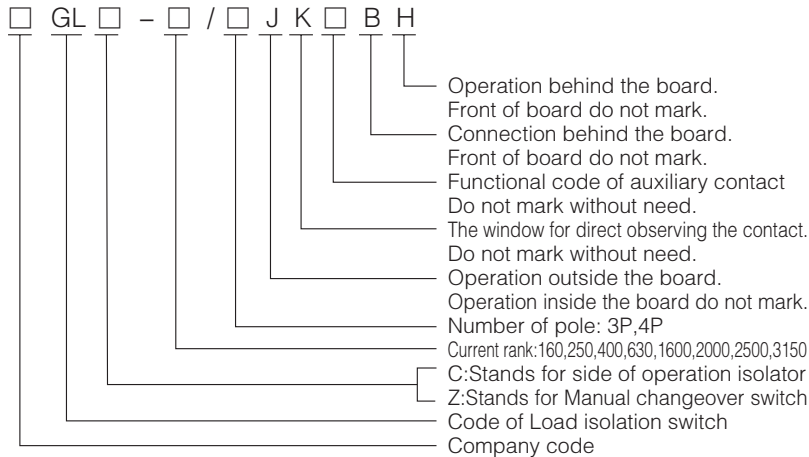
GL series Isolator(Load isolation switch) apply to AC 50Hz, rated voltage below 660V(690V), apply to DC, rated voltage below 440V. Rated current is 125A~3150A. It is suitable for connecting and breaking the infrequent electric circuit or electric isolation in power system. Above 1000A only suitable for electric isolation.

This product comply with IEC60947-3.

2. ENVIRONMENTAL CONDITIONS

- ☐ Altitude not exceed 2000m.
- ☐ Ambient air temperature is not higher than +40°C and not lower than -5°C. And the average temperature value of 24 hours is not higher than +35°C.
- ☐ When the maximum temperature up to +40°C, air relative humidity should not larger than 50%. In the lower temperature, it allows to have a higher relative humidity, but should take measure when temperature occasionally change or turn the condensation.
- ☐ No explosion hazard medium environment.
- ☐ Pollution is 3 class.

3. MODEL AND MEANING



One Normal open One Normal closing	11	1NO+1NC
Two Normal open Two Normal closing	22	2NO+2NC

4. STRUCTURAL FEATURES

- 4.1 Switch adopt elastic-accumulating mechanism for instant release realizes the rapid making and breaking. Have no relationship with the speed of the operation handle and increasing greatly the capability of extinguishing electric arc.
- 4.2 The shell made of unsaturated polyester resin reinforced by fiberglass possess excellent performance of flame resistant, dielectric performance, safe operation, resist carbonic performance and resist impact performance.
- 4.3 Switch have 3P and 4P(3P+Neutral pole)
- 4.4 Mark window is set in the front side to indicate ON and OFF state of contact.
- 4.5 Operation handle can installed directly in the middle of the switch is inside operation. And also can additional longer handle installed outside of the distribution box door. It call outside operation.
- 4.6 According to the need, can supply normal open and normal closing auxiliary contact and install special base board, the front and behind connection type, to meet client need.
- 4.7 When in disconnect position "O", can use two or three locked the handle to avoid misoperation.

5. STRUCTURE AND CHARACTER

The Switch shell is manufactured with unsaturated polyester resin reinforced by fiberglass plastic (DMC). Spring energy storage and Speed institutions can quickly achieve connected with the breaker or disconnected with the break. The structure of the contact is parallel double breakpoint two separate head, and ensure the contact pressure by shape spring; Switch can automatically determine the limit position of on and off, and has the obvious On-off tag to indicate the on and off position.

6. TECHNICAL PARAMETER

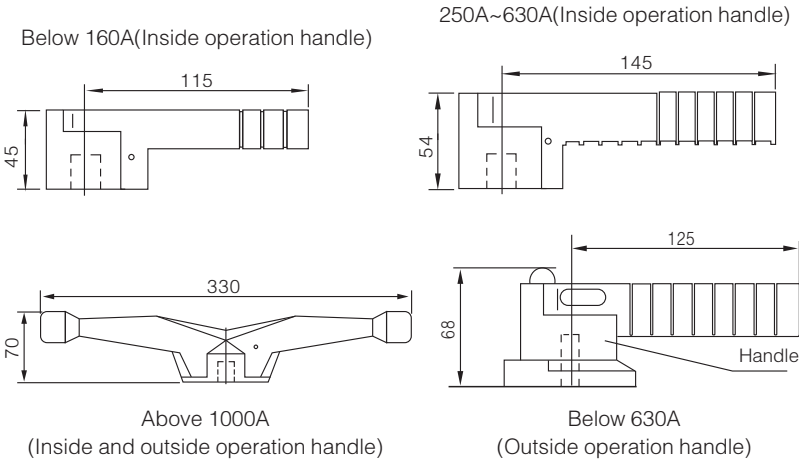
- 6.1 GL series isolation switch's technical parameter (See table 1).
- 6.2 Side operation, outside operation, behind box operation, behind board connection, directly observe contact window and isolation switch's technical parameter all meet relative GL.
- 6.3 GLZ Manual changeover switch's technical parameter is meet relative GL.

Table 1: GL series Isolation switch's technical parameter

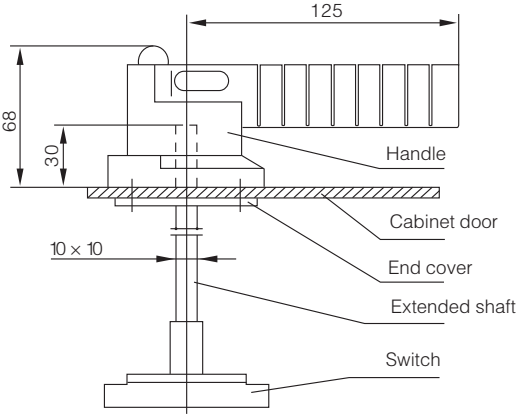
Conventional thermal current(A)			125A	160A	200A	225A	250A	315A	400A	500A	630A	800A	1000A	1250A	1600A	2000A	2500A	3150A	
Rated insulated voltage(Ui)			750V										1000V						
Dielectric strength			3000V										3500V						
Rated surge--resistant voltage(Ulmp)			6kV										10kV						
Rated working voltage(Uie)			AC400																
Rated frequency			50Hz																
Use sort			AC--20A、 21B																
Rated working current Ie(A)	AC400V	AC--20A	125	160	200	225	250	315	400	500	630	/							
		AC--21B	/								800	1000	1250	1600	2000	2500	3150		
	AC600V	AC--20A	125	160	200	225	250	315	400	500	630	/							
		AC--21B	/										800	1000	1250	1600	2000	2500	3150
Rated making capability(A)			10Ie																
Rated breaking capability(A)			8Ie																
Rated short connection current Icm(kA)			/									105							
Is Rated short time withstand current Icw(kA)			10					20		35									
Mechanical life(Time)			5000			3000			2000			1000							
Electrical life(Time)			1000			600			300			/							
Moment of operation(N*M)			6.5		10		15			27			60						
Weight kg (Without handle)	3P	0.88	1.6	3.8	4.2		10.5			16		31	42						
	4P	1.1	2	4.6	5		13			20		40	49						

7. BOUNDARY AND INSTALLATION DIMENSION

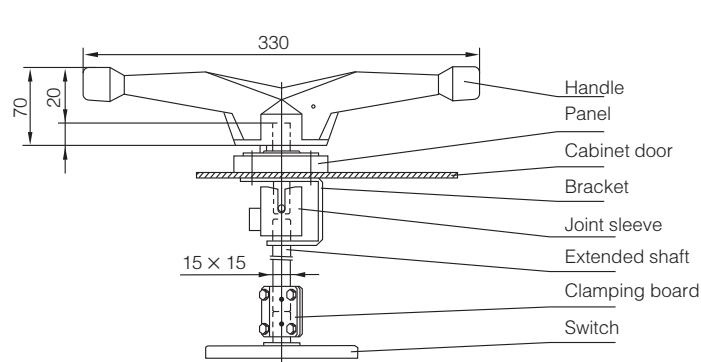
7.1 Operation handle(According to the current specification)



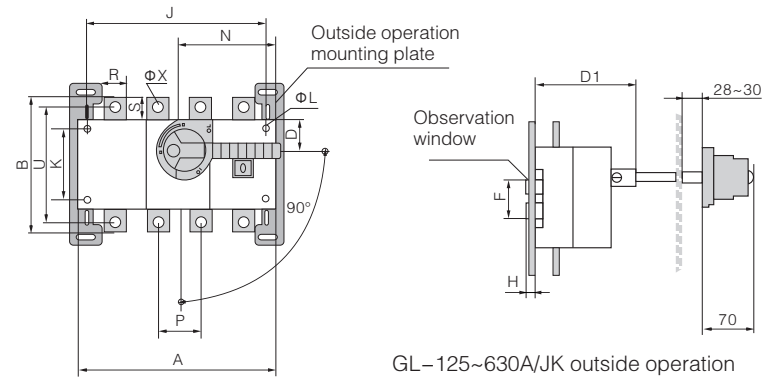
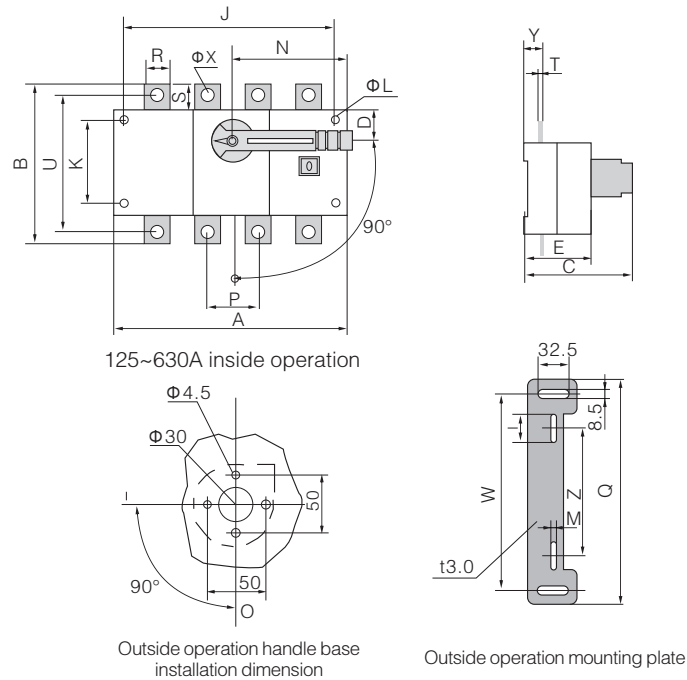
7.2 630A and below 630A outside operation handle installation diagram



7.3 Above 1000A outside operation handle installation diagram



7.4 GL-125~630A series Isolation switch boundary and installation dimension



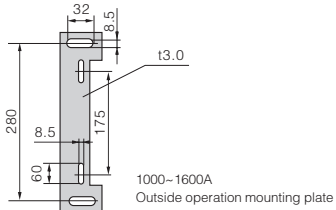
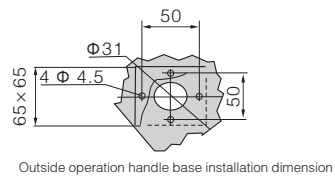
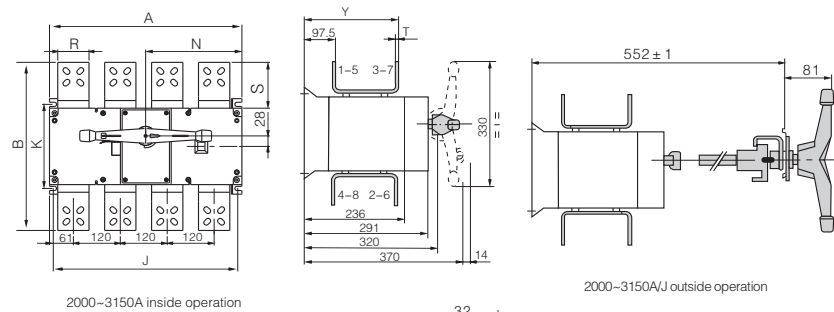
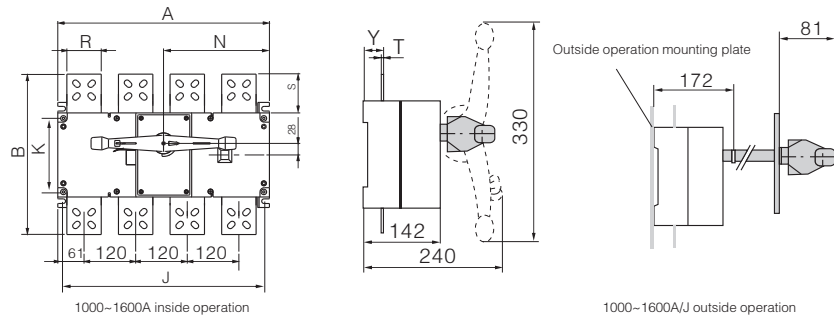
GL-125~630A/JK outside operation

Specification	Mounting plate dimension				
	I	M	Z	W	Q
GL-125A	55	5.5	85	190	218
GL-160A	55	5.5	85	190	218
GL-200A	55	5.5	85	190	218
GL-250A	55	5.5	85	190	218
GL-315A	60	6.5	130	240	270
GL-400A	60	6.5	130	240	270
GL-500A	60	6.5	130	240	270
GL-630A	60	6.5	130	240	270

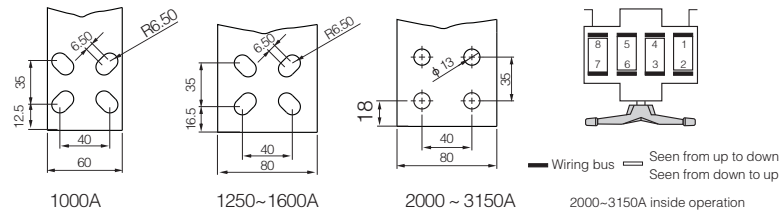
GL-125~630A installation dimension table

Specification	Boundary and installation dimension																		
	A	B	C	D	D1	E	ΦL	J	K	N	P	R	S	T	U	ΦX	Y	F	H
GL-125A/3	140	135	120	27	93	73	5.5	120	65	85	36	20	25	3.5	115	9	24	49	10
GL-125A/4	170	135	120	27	93	73	5.5	150	65	85	36	20	25	3.5	115	9	24	49	10
GL-160A/3	140	135	120	27	93	73	5.5	120	65	85	36	20	25	3.5	115	9	24	49	10
GL-160A/4	170	135	120	27	93	73	5.5	150	65	85	36	20	25	3.5	115	9	24	49	10
GL-200A/3	180	165	140	35	103	86	7	160	90	115	50	25	28	3.5	140	11	25	79	15
GL-200A/4	230	165	145	35	103	86	7	210	90	115	50	25	28	3.5	140	11	27	79	15
GL-250A/3	180	165	140	35	103	86	7	160	90	115	50	25	28	3.5	140	11	25	79	15
GL-250A/4	230	165	145	35	103	86	7	210	90	115	50	25	28	3.5	140	11	27	79	15
GL-315A/3	230	234	170	50	134	116	7	210	140	145	65	32	37	5	205	11	37	94	20
GL-315A/4	290	234	170	50	134	116	7	270	140	145	65	32	37	5	205	11	37	94	20
GL-400A/3	230	234	170	50	134	116	7	210	140	145	65	32	37	5	205	11	37	94	20
GL-400A/4	290	234	170	50	134	116	7	270	140	145	65	32	37	5	205	11	37	94	20
GL-500A/3	230	250	170	50	134	116	7	210	140	145	65	40	45	6	215	12.5	38	94	20
GL-500A/4	290	250	170	50	134	116	7	270	140	145	65	40	45	6	215	12.5	38	94	20
GL-630A/3	230	250	170	50	134	116	7	210	140	145	65	40	45	6	215	12.5	38	94	20
GL-630A/4	290	250	170	50	134	116	7	270	140	145	65	40	45	6	215	12.5	38	94	20

7.5 GL-1000~3150A series Isolation switch boundary and installation dimension



Wiring bus

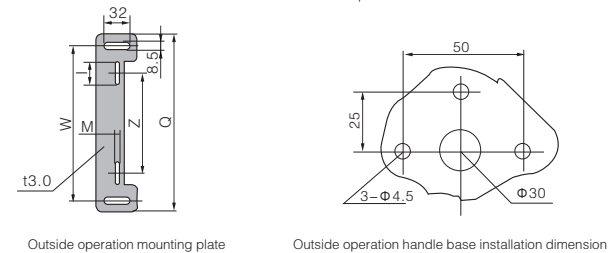
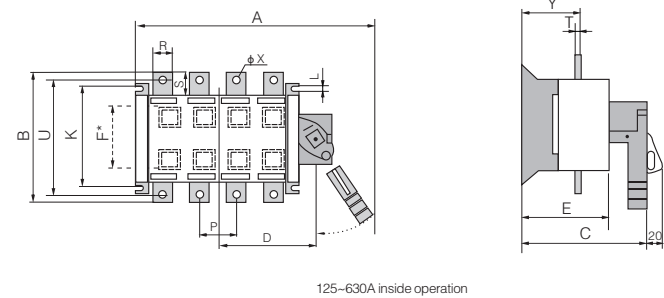


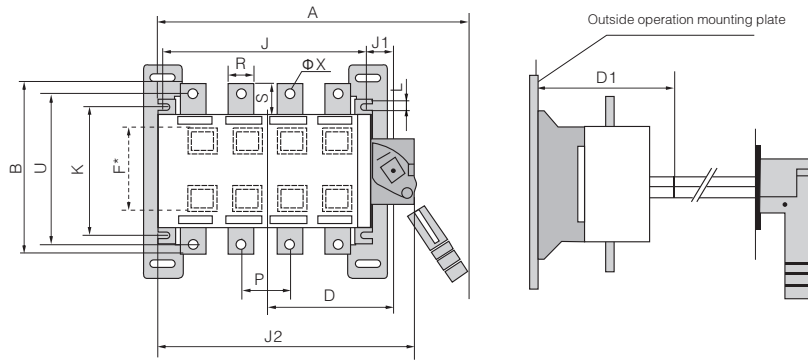
GL-1000~3150A installation dimension table

Specification	Boundary and installation dimension								
	A	B	J	K	N	R	S	T	Y
GL-1000A/3	378	328	352	175	185.5	60	64	8	48
GL-1000A/4	492	328	467	175	246	60	64	8	48
GL-1250A/3	378	336	352	175	185.5	80	68	8	48
GL-1250A/4	492	336	467	175	246	80	68	8	48
GL-1600A/3	378	336	352	175	185.5	80	68	10	49
GL-1600A/4	492	336	467	175	246	80	68	10	49
GL-2000A/3	378	423	352	220	185.5	80	111.5	10	210.5
GL-2000A/4	492	423	467	220	246	80	111.5	10	210.5
GL-2500A/3	378	433	352	220	185.5	80	116.5	15	215.5
GL-2500A/4	492	433	467	220	246	80	116.5	15	215.5
GL-3150A/3	378	443	352	220	185.5	80	121.5	20	220.5
GL-3150A/4	492	443	467	220	246	80	121.5	20	220.5

7.6 GLC/CK-125~630A side operation Isolation switch boundary and installation dimension

The dotted line in the figure is the visual window.





GLC/CK-125~630A/JK outside operation

Specification	Mounting plate dimension					
	I	M	Z	W	Q	
GLC/CK-125A	55	6.5	110	216	244	
GLC/CK-160A	55	6.5	110	216	244	
GLC/CK-200A	55	6.5	110	216	244	
GLC/CK-250A	55	6.5	110	216	244	
GLC/CK-315A	60	8.5	170	280	311	
GLC/CK-400A	60	8.5	170	280	311	
GLC/CK-500A	60	8.5	170	280	311	
GLC/CK-630A	60	8.5	170	280	311	

GLC-125~630A installation dimension table

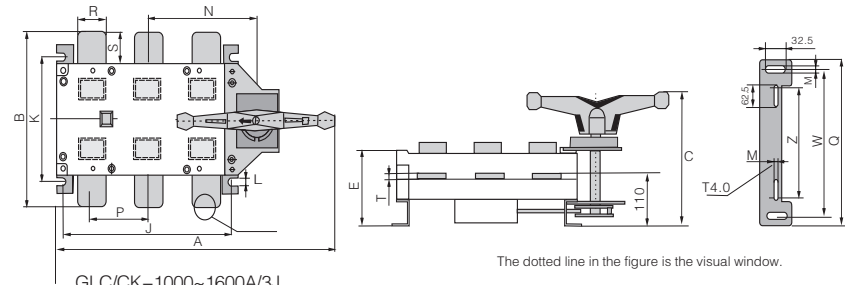
Specification	Boundary and installation dimension																		
	A	B	C	D	D1	E	J	J1	J2	K	P	R	S	T	U	ΦX	Y	L	F
GLC-125A/3	300	135	160	89	125	89	120	37	195	95	36	20	25	3.5	115	9	55	7	49
GLC-125A/4	330	135	160	104	125	89	150	37	225	95	36	20	25	3.5	115	9	55	7	49
GLC-160A/3	300	135	160	89	125	89	120	37	195	95	36	20	25	3.5	115	9	55	7	49
GLC-160A/4	330	135	160	104	125	89	150	37	225	95	36	20	25	3.5	115	9	55	7	49
GLC-200A/3	340	165	167	110	134	100	160	37	235	115	50	25	28	3.5	140	11	65	9	79
GLC-200A/4	390	165	167	135	134	100	210	37	285	115	50	25	28	3.5	140	11	65	9	79
GLC-250A/3	340	165	167	110	134	100	160	37	235	115	50	25	28	3.5	140	11	65	9	79
GLC-250A/4	390	165	167	135	134	100	210	37	285	115	50	25	28	3.5	140	11	65	9	79
GLC-315A/3	410	234	210	150	163	129	210	44.5	298	175	65	32	37	5	205	11	85	10	94
GLC-315A/4	470	234	210	180	163	129	270	44.5	358	175	65	32	37	5	205	11	85	10	94
GLC-400A/3	410	234	210	150	163	129	210	44.5	298	175	65	32	37	5	205	11	85	10	94
GLC-400A/4	470	234	210	180	163	129	270	44.5	358	175	65	32	37	5	205	11	85	10	94
GLC-500A/3	410	250	210	150	163	129	210	44.5	298	175	65	40	45	6	215	12.5	85	10	94
GLC-500A/4	470	250	210	180	163	129	270	44.5	358	175	65	40	45	6	215	12.5	85	10	94
GLC-630A/3	410	250	210	150	163	129	210	44.5	298	175	65	40	45	6	215	12.5	85	10	94
GLC-630A/4	470	250	210	180	163	129	270	44.5	358	175	65	40	45	6	215	12.5	85	10	94

GLC-125~630A installation dimension table

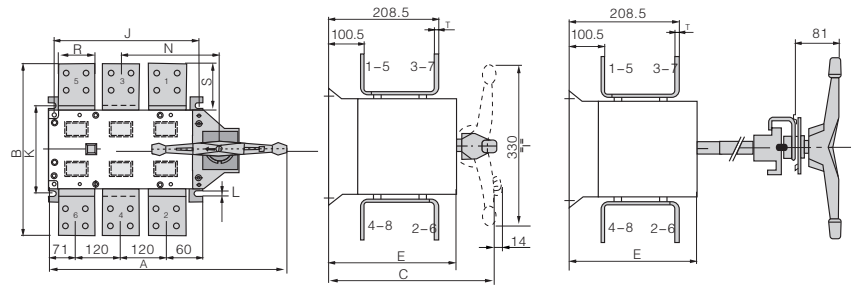
Specification	Boundary and installation dimension																		
	A	B	C	D	D1	E	J	J1	J2	K	P	R	S	T	U	ΦX	Y	L	F
GLCK-125A/3	266	135	148	89	125	89	120	30	195	95	36	20	25	3	115	8.5	55	7	49
GLCK-125A/4	296	135	148	104	125	89	150	30	225	95	36	20	25	3	115	8.5	55	7	49
GLCK-160A/3	266	135	148	89	125	89	120	30	195	95	36	20	25	3	115	8.5	55	7	49
GLCK-160A/4	296	135	148	104	125	89	150	30	225	95	36	20	25	3	115	8.5	55	7	49
GLCK-200A/3	336	170	167	110	134	100	160	30	235	115	50	25	30	3.5	140	10.5	65	9	79
GLCK-200A/4	384	170	167	135	134	100	210	30	285	115	50	25	30	3.5	140	10.5	65	9	79
GLCK-250A/3	336	170	167	110	134	100	160	30	235	115	50	25	30	3.5	140	10.5	65	9	79
GLCK-250A/4	384	170	167	135	134	100	210	30	285	115	50	25	30	3.5	140	10.5	65	9	79
GLCK-315A/3	425	240	210	150	163	129	210	44.5	298	180	65	32	40	5	206	10.5	85	10	94
GLCK-315A/4	480	240	210	180	163	129	270	44.5	358	180	65	32	40	5	206	10.5	85	10	94
GLCK-400A/3	425	240	210	150	163	129	210	44.5	298	180	65	32	40	5	206	10.5	85	10	94
GLCK-400A/4	480	240	210	180	163	129	270	44.5	358	180	65	32	40	5	206	10.5	85	10	94
GLCK-500A/3	425	260	210	150	163	129	210	44.5	298	180	65	40	50	6	220	12.5	85	10	94
GLCK-500A/4	480	260	210	180	163	129	270	44.5	358	180	65	40	50	6	220	12.5	85	10	94
GLCK-630A/3	425	260	210	150	163	129	210	44.5	298	180	65	40	50	6	220	12.5	85	10	94
GLCK-630A/4	480	260	210	180	163	129	270	44.5	358	180	65	40	50	6	220	12.5	85	10	94

7.7 GLC/CK-1000~3150A side operation Isolation switch boundary and installation dimension

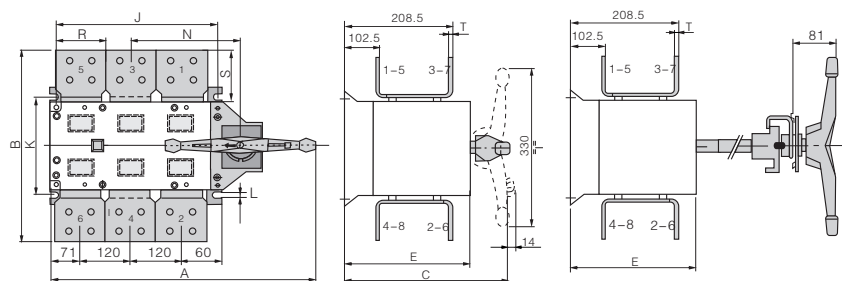
The dotted line in the figure is the visual window.



GLC/CK-1000~1600A/3J

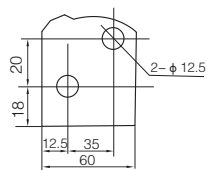


GLC/CK-2000~2500A/3J

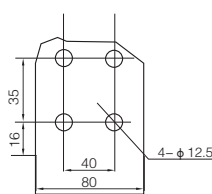


3150A inside operation

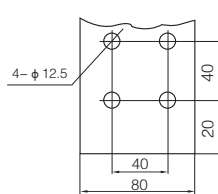
3150A/J outside operation



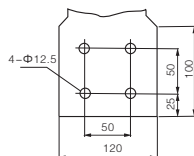
800~1000A



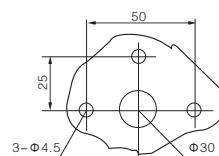
1250~1600A



2000~2500A



3150A

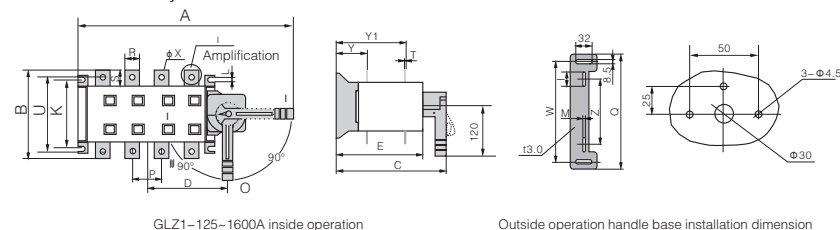


Outside operation handle base installation dimension

GLC/CK-1000~3150A installation dimension table

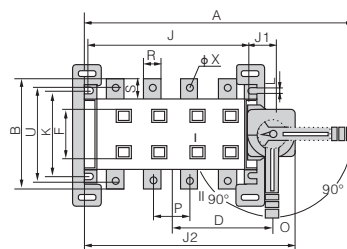
Specification	Boundary and installation dimension															
	A	B	C	E	L	J	K	M	N	P	Q	R	S	T	W	Z
GLC/CK-1000A/3	583	310	242	150	11	352	220	8.5	232	120	311	60	55	8	280	224
GLC/CK-1000A/4	698	310	242	150	11	467	220	8.5	286	120	311	60	55	8	280	224
GLC/CK-1250A/3	583	335	242	150	11	352	220	8.5	232	120	311	80	68	8	280	224
GLC/CK-1250A/4	698	335	242	150	11	467	220	8.5	286	120	311	80	68	8	280	224
GLC/CK-1600A/3	583	335	242	150	11	352	220	8.5	232	120	311	80	68	10	280	244
GLC/CK-1600A/4	698	335	242	150	11	467	220	8.5	286	120	311	80	68	10	280	224
GLC/CK-2000A/3	583	450	330	237	11	352	220	8.5	232	120	311	80	125	10	280	224
GLC/CK-2000A/4	698	450	330	237	11	467	220	8.5	286	120	311	80	125	10	280	224
GLC/CK-2500A/3	583	450	330	237	11	352	220	8.5	232	120	311	80	125	10	280	224
GLC/CK-2500A/4	698	450	330	237	11	467	220	8.5	286	120	311	80	125	10	280	224
GLC/CK-3150A/3	583	494	330	237	11	352	220	8.5	232	120	311	120	147	12	280	244
GLC/CK-3150A/4	698	494	330	237	11	467	220	8.5	286	120	311	120	147	12	280	224

7.8 GLZ1-125~630A series lengthways Manual changeover switch boundary and installation dimension



GLZ1-125~1600A inside operation

Outside operation handle base installation dimension

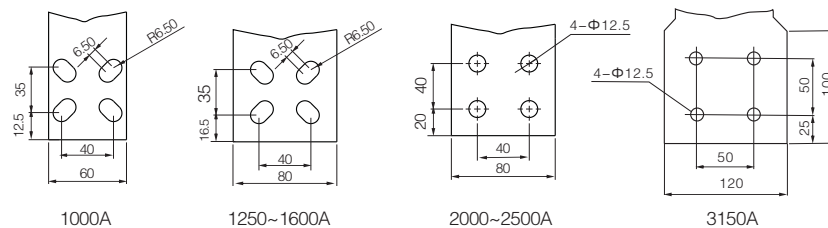


Outside operation mounting plate

GLZ1-125~1600A/JK outside operation

Specification	Mounting plate dimension				
	I	M	Z	W	Q
GLZ1-125A	55	6.5	95	216	244
GLZ1-160A	55	6.5	95	216	244
GLZ1-200A	55	6.5	116	216	244
GLZ1-250A	55	6.5	116	216	244
GLZ1-315 ~ 400A	60	8.5	180	280	311
GLZ1-500 ~ 630A	60	8.5	180	280	311
GLZ1-1000 ~ 1600A	60	8.5	180	280	311

Wiring bus



1000A

1250~1600A

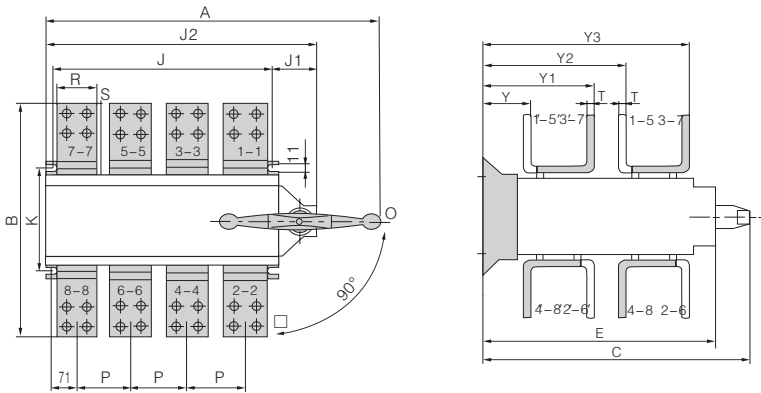
2000~2500A

3150A

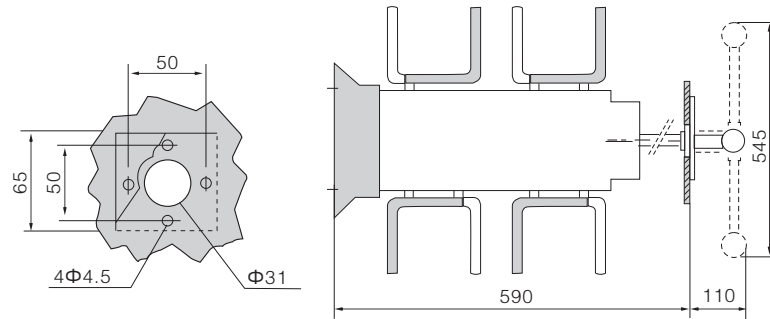
GLZ1-125~630A installation dimension table

Specification	Boundary and installation dimension																
	A	B	C	D	D1	E	J	J1	J2	K	L	P	R	S	T	U	ΦX
GLZ1-125A~160A/3	300	135	228	89	190	160	120	37	195	95	7	36	20	25	3.5	115	9
GLZ1-125A~160A/4	330	135	228	104	190	160	150	37	225	95	7	36	20	25	3.5	115	9
GLZ1-200A~250A/3	340	165	250	110	215	180	160	37	235	115	9	50	25	28	3.5	140	10.5
GLZ1-200A~250A/4	390	165	250	135	218	180	210	37	285	115	9	50	25	28	3.5	140	10.5
GLZ1-315A~400A/3	410	234	340	150	278	241	211	44.5	298	175	10	65	32	37	5	205	10.5
GLZ1-315A~400A/4	470	234	340	180	278	241	270	44.5	358	175	10	65	32	37	5	205	10.5
GLZ1-500A~630A/3	410	250	340	150	278	241	211	44.5	298	175	10	65	40	45	6	215	12.5
GLZ1-500A~630A/4	470	250	340	180	278	241	270	44.5	358	175	10	65	40	45	6	215	12.5

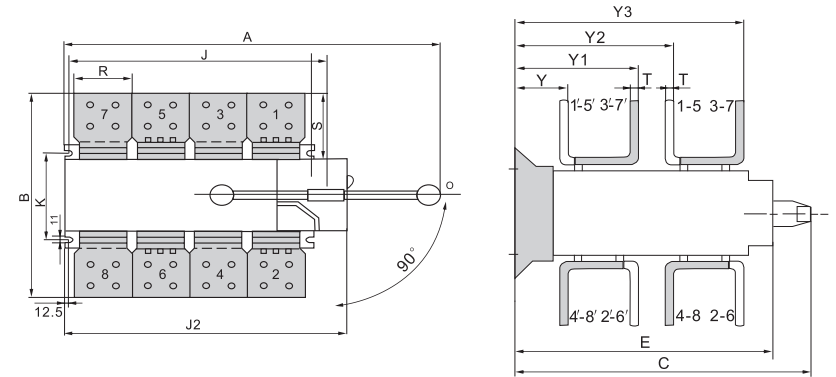
7.9 GLZ1-1000~3150A series lengthways Manual changeover switch boundary and installation dimension



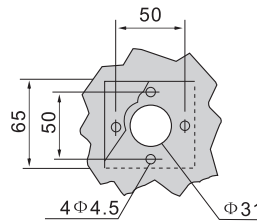
GLZ1-2000~3150A inside operation



GLZ1-2000~2500A/J outside operation



GLZ1-3150A inside operation

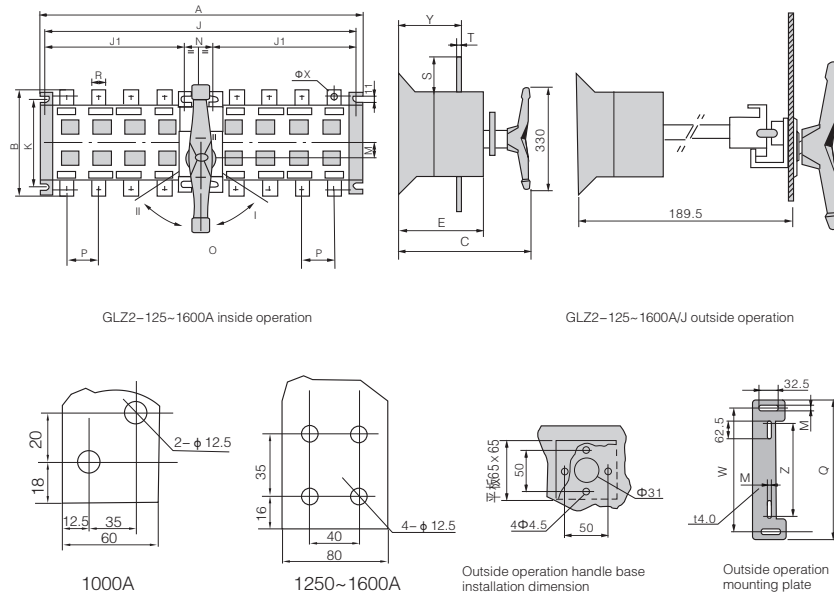


GLZ1-3150A/J outside operation

GLZ1-1000~3150A installation dimension table

Specification	Boundary and installation dimension													
	A	B	C	E	J	J1	J2	K	P	R	S	T	ΦX	Y
GLZ1-1000A/3	590	328	390	300	354	53	450	220	120	60	64	8	12.5	110
GLZ1-1000A/4	704	328	390	300	467	53	565	220	120	60	64	8	12.5	110
GLZ1-1250A/3	590	336	390	300	354	53	450	220	120	80	68	8	12.5	110
GLZ1-1250A/4	704	336	390	300	467	53	565	220	120	80	68	8	12.5	110
GLZ1-1600A/3	590	336	390	300	354	53	450	220	120	80	68	10	12.5	111
GLZ1-1600A/4	704	336	390	300	467	53	565	220	120	80	68	10	12.5	111
GLZ1-2000A/3	590	450	568	475	352	53	450	220	120	80	125	10	12.5	100.5
GLZ1-2000A/4	704	450	568	475	467	53	565	220	120	80	125	10	12.5	100.5
GLZ1-2500A/3	590	450	568	475	352	53	450	220	120	80	125	10	12.5	100.5
GLZ1-2500A/4	704	450	568	475	467	53	565	220	120	80	125	10	12.5	100.5
GLZ1-3150A/3	590	494	568	475	352	53	450	220	120	147	12	12.5	102.5	208.5
GLZ1-3150A/4	704	494	568	475	467	53	565	220	120	147	12	12.5	102.5	208.5

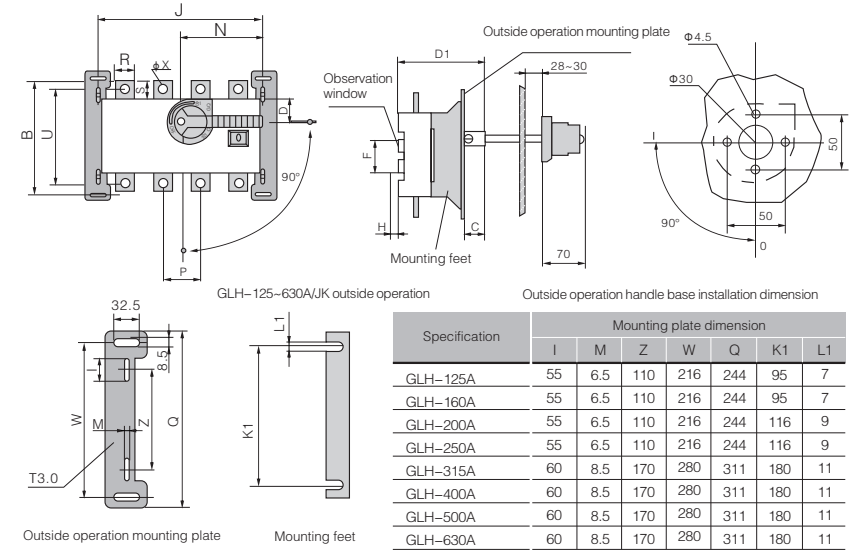
7.10 GLZ2-125~1600A series transverse Manual changeover switch boundary and installation dimension



GLZ2-125~1600A installation dimension table

Specification	Boundary and installation dimension															
	A	B	C	E	Y	J	J1	K	M	N	P	Q	R	S	T	Z
GLZ2-125 ~ 160A/3	320	135	148	89	55	302	120	95	6.5	59	36	218	20	25	3.5	190
GLZ2-125~160A/4	378	135	148	89	55	359	150	95	6.5	59	36	218	20	25	3.5	190
GLZ2-200~250A/3	400	170	167	100	65	380	160	115	6.5	65	50	218	25	30	3.5	190
GLZ2-200~250A/4	498	170	167	100	65	480	210	115	6.5	65	50	218	25	30	3.5	190
GLZ2-315~400A/3	530	240	213	129	85	515	210	180	8.5	90	65	270	32	40	5	240
GLZ2-315~400A/4	650	240	213	129	85	515	270	180	8.5	90	65	270	32	40	5	240
GLZ2-500~630A/3	530	260	213	129	85	515	210	180	8.5	90	65	270	40	50	6	240
GLZ2-500~630A/4	650	260	213	129	85	515	270	180	8.5	90	65	270	40	50	6	240
GLZ2-1000A/3	835	310	242	145	110	811	352	220	8.5	105	120	311	60	55	8	280
GLZ2-1000A/4	1064	310	242	145	110	1045	467	220	8.5	105	120	311	60	55	8	280
GLZ2-1250A/3	835	335	242	145	110	811	352	220	8.5	105	120	311	80	68	8	280
GLZ2-1250A/4	1064	335	242	145	110	1045	467	220	8.5	105	120	311	80	68	8	280
GLZ2-1600A/3	835	335	242	145	111	811	352	220	8.5	105	120	311	80	68	10	280
GLZ2-1600A/4	1064	335	242	145	111	1045	467	220	8.5	105	120	311	80	68	10	280

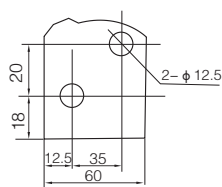
7.11 GLH-125~630A behind box operation Isolation switch boundary and installation dimension



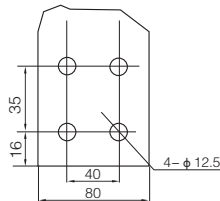
GLH-125~630A installation dimension table

Specification	Boundary and installation dimension											
	B	C	D	D1	J	N	P	R	S	U	ΦX	F
GLH-125A/3	135	17	27	92	120	85	36	20	25	115	8.5	49
GLH-125A/4	135	17	27	92	150	85	36	20	25	115	8.5	49
GLH-160A/3	135	17	27	92	120	85	36	20	25	115	8.5	49
GLH-160A/4	135	17	27	92	150	85	36	20	25	115	8.5	49
GLH-200A/3	170	18	35	103	160	115	50	25	30	140	10.5	79
GLH-200A/4	170	18	35	103	210	115	50	25	30	140	10.5	79
GLH-250A/3	170	18	35	103	160	115	50	25	30	140	10.5	79
GLH-250A/4	170	18	35	103	210	115	50	25	30	140	10.5	79
GLH-315A/3	240	20	50	138	210	145	65	32	40	206	10.5	94
GLH-315A/4	240	20	50	138	270	145	65	32	40	206	10.5	94
GLH-400A/3	240	20	50	138	210	145	65	32	40	206	10.5	94
GLH-400A/4	240	20	50	138	270	145	65	32	40	206	10.5	94
GLH-500A/3	260	20	50	138	210	145	65	40	50	220	12.5	94
GLH-500A/4	260	20	50	138	270	145	65	40	50	220	12.5	94
GLH-630A/3	260	20	50	138	210	145	65	40	50	220	12.5	94
GLH-630A/4	260	20	50	138	270	145	65	40	50	220	12.5	94

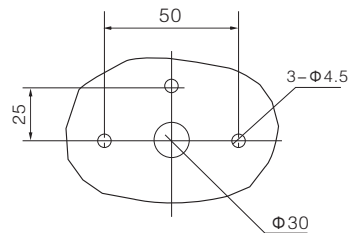
Mounting feet



1000A



1250~1600A



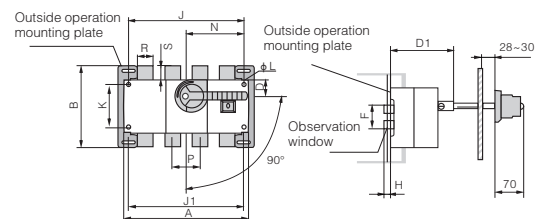
Outside operation handle base installation dimension

Specification	Boundary and installation dimension							
	A	B	J	N	R	S	T	Y
GLH-1000A/3	378	310	352	185	60	55	8	48
GLH-1000A/4	492	310	467	246	60	55	8	48
GLH-1250A/3	378	335	352	185	80	68	8	48
GLH-1250A/4	492	335	467	246	80	68	8	48
GLH-1600A/3	378	335	352	185	80	68	10	49
GLH-1600A/4	492	335	467	246	80	68	10	49

GLB-125~630A inside operation

Outside operation handle
base installation dimension

Outside operation mounting plate

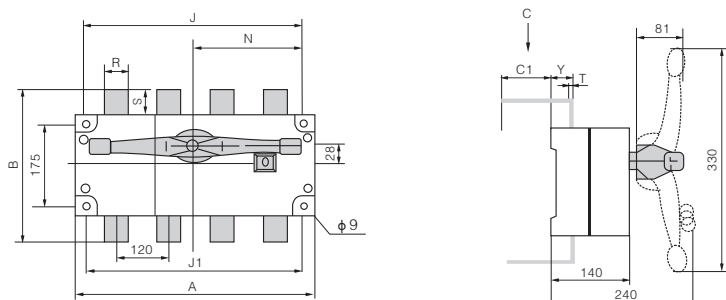


GLB-125~630A/JK outside operation

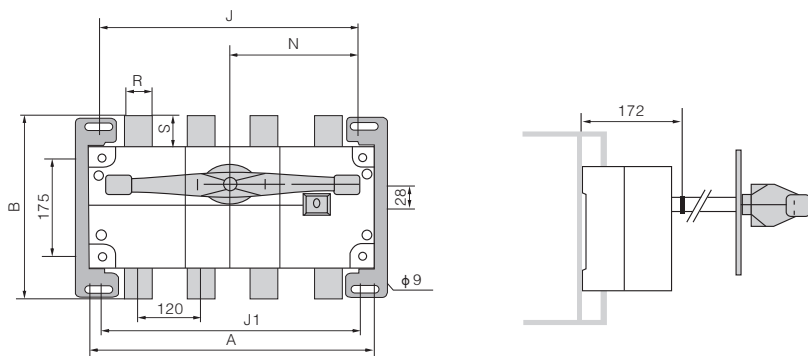
Specification	Boundary and installation dimension				
	I	M	Z	W	Q
GLB-125A	55	5.5	85	190	218
GLB-160A	55	5.5	85	190	218
GLB-200A	55	5.5	85	190	218
GLB-250A	55	5.5	85	190	218
GLB-315A	60	6.5	130	240	270
GLB-400A	60	6.5	130	240	270
GLB-500A	60	6.5	130	240	270
GLB-630A	60	6.5	130	240	270

Specification	Boundary and installation dimension																				
	A	B	C	C1	D	D1	E	E1	ΦL	J	J1	K	N	P	R	S	T	ΦX	Y	F	H
GLB-125A/3	140	135	120	70	27	92	73	10	5.5	120	120	65	85	36	20	25	3	8.5	23	49	10
GLB-125A/4	170	135	120	70	27	92	73	10	5.5	150	150	65	85	36	20	25	3	8.5	23	49	10
GLB-160A/3	140	135	120	70	27	92	73	10	5.5	120	120	65	85	36	20	25	3	8.5	23	49	10
GLB-160A/4	170	135	120	70	27	92	73	10	5.5	150	150	65	85	36	20	25	3	8.5	23	49	10
GLB-200A/3	180	170	140	75	35	103	86	15	5.5	160	160	90	115	50	25	30	3.5	10.5	25	79	15
GLB-200A/4	230	170	140	75	35	103	86	15	5.5	210	210	90	115	50	25	30	3.5	10.5	25	79	15
GLB-250A/3	180	170	140	75	35	103	86	15	5.5	160	160	90	115	50	25	30	3.5	10.5	25	79	15
GLB-250A/4	230	170	140	75	35	103	86	15	5.5	210	210	90	115	50	25	30	3.5	10.5	25	79	15
GLB-315A/3	230	240	185	80	50	138	116	17	7	210	210	140	145	65	32	40	5	10.5	36	94	20
GLB-315A/4	290	240	185	80	50	138	116	17	7	270	270	140	145	65	32	40	5	10.5	36	94	20
GLB-400A/3	230	240	185	80	50	138	116	17	7	210	210	140	145	65	32	40	5	10.5	36	94	20
GLB-400A/4	290	240	185	80	50	138	116	17	7	270	270	140	145	65	32	40	5	10.5	36	94	20
GLB-500A/3	230	260	185	85	50	138	116	20	7	210	210	140	145	65	40	50	6	12.5	37	94	20
GLB-500A/4	290	260	185	85	50	138	116	20	7	270	270	140	145	65	40	50	6	12.5	37	94	20
GLB-630A/3	230	260	185	85	50	138	116	20	7	210	210	140	145	65	40	50	6	12.5	38	94	20
GLB-630A/4	290	260	185	85	50	138	116	20	7	270	270	140	145	65	40	50	6	12.5	38	94	20

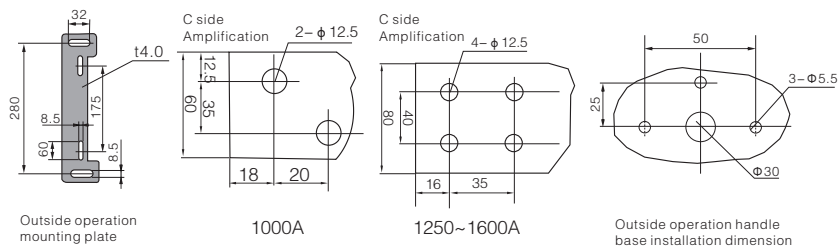
7.14 GLB-1000~1600A behind board connection Isolation switch boundary and installation dimension



GLB-1000~1600A inside operation



GLB-1000~1600A/J outside operation



GLB-1000~1600A installation dimension table

Specification	Boundary and installation dimension									
	A	B	C1	J	J1	N	R	S	T	Y
GLB-1000A/3	378	344	100	352	352	185	60	55	8	48
GLB-1000A/4	492	344	100	467	467	248	60	55	8	48
GLB-1250A/3	378	344	100	352	352	185	80	68	8	48
GLB-1250A/4	492	344	100	467	467	248	80	68	8	48
GLB-1600A/3	378	348	100	352	352	185	80	68	10	49
GLB-1600A/4	492	348	100	467	467	248	80	68	10	49

8. INSTALLATION EXPLAIN

8.1 GL-630A and below 630A inside operation switch instruction

As shown in Figure 1: Install the switch vertically inside of the switch cabinet and disconnect switch at "O" position. Insert the Up block to the hole of Square axis in the switch and the handle in horizontal position. Then use Self-tapping screw from the handle screw hole into the Up block.

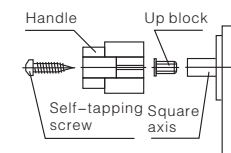


Figure 1

8.2 GL-1000A and above 1000A inside operation switch instruction

As shown in Figure 2: Install the switch vertically inside of the switch cabinet and disconnect switch at "O" position. Set the handle into Square axis of the switch and the handle in horizontal position. Then fix Flat head screw in the switch side handle and then tighten the screw.

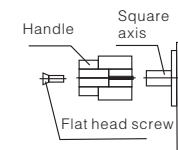


Figure 2

8.3 GL-630A and below 630A outside operation switch instruction

As shown in Figure 3: Install the switch vertically inside of the switch cabinet and disconnect switch at "O" position. And then measure the distance "L" from door of cabinet to the top of Square axis.

As shown in Figure 4: After measure the length("L"+66) of the Extended shaft,saw off the extra parts.

As shown in Figure 5: If no need door interlock(It means when switch closed,the door of cabinet could not open. When the door is open,the switch could not be closed),use vice to pull out the black Column pin that was inserted in a side of extended shaft. If need door interlock,no need to pull out the black Column pin. Then take the extended shaft insert into switch hole and insert to the end and then tighten the screw.

As shown in Figure 6: Using hammer from outside of cabinet to hit the door and the top of extended shaft gently to confirm the drill hole center. And in the inside door drilling center drilled out $\phi 6$ hole and then enlarge $\phi 30$.

As shown in Figure 7: Take the central part of bulge out of disc End cover clip in the door's $\phi 30$ hole. And according to the 4 small holes in the end cover for positioning,drill out 4- $\phi 4.5$ holes at the door around the horizontal direction and vertical direction. Then use hammer to knock off the central part of bulge out of disc End cover.

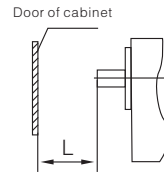


Figure 3

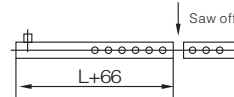


Figure 4

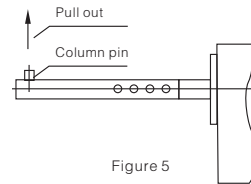


Figure 5

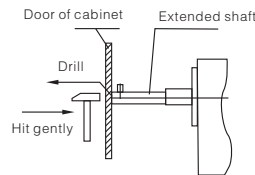


Figure 6

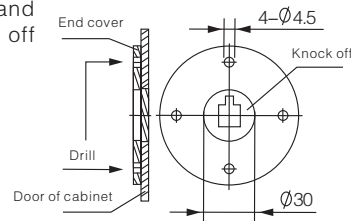


Figure 7

As shown in Figure 8: Using two self-tapping screws and flat pad of the enclosed accessory,put the disc End cover(Installed inside of the door) and handle(Installed outside of the door) to fix at the hole in the door. In the installation,the handle should at the horizontal position. And directed "O".

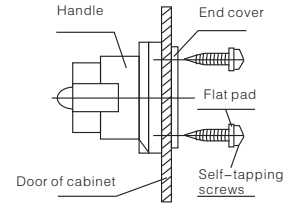


Figure 8

8.4 GL-1000A and above 1000A outside operation switch instruction

As shown in Figure 9: Install the switch vertically inside of the switch cabinet and disconnect switch at "O" position. And then measure the distance "L" from door of cabinet to the top of Square axis.

As shown in Figure 10: Twisting the Locating shaft into the threaded hole of Extended shaft and tightened in place. Measure the length "L" of the Extended shaft together with Locating shaft,saw off the extra parts.

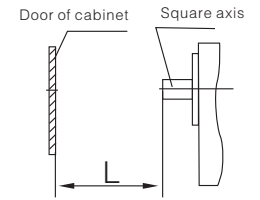


Figure 9

As shown in Figure 11: Using Locating clamping and enclosed Bolt to connect the Extended shaft with Square axis,and tighten the Fix screw. Adjusting the Locating shaft to let the Locating shaft contact the door. Using hammer from outside of cabinet to hit the door and the top of Locating shaft gently to confirm the drill hole center. And then remove the Locating shaft and in the inside door drilling center drilled out $\phi 6$ hole and then enlarge $\phi 30$.

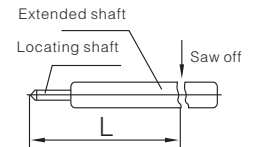


Figure 10

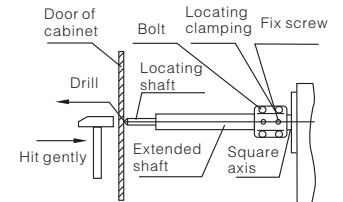


Figure 11

As shown in Figure 12: Using enclosed shorter flat head screw to connect the Joint sleeve to the Extended shaft, and point to the left level (It means switch at "O" position). Put Panel components into the $\phi 30$ door hole. Make sure that the position of Panel components' indicating part is same as switch position. Close the door. And according to the 3 small holes in the Panel components for positioning, drill out 3- $\phi 5$ holes at the door.

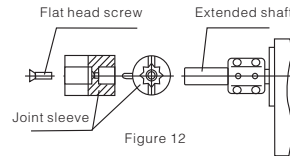


Figure 12

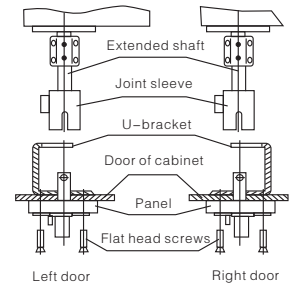
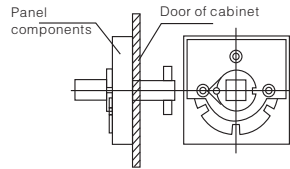


Figure 13

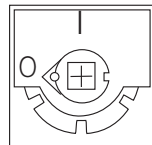


Figure 14

As shown in Figure 13: Using enclosed 3 longer flat head screws to connect the Panel components (Installed outside of the door) with U-bracket (Installed inside of the door), install at the 3- $\phi 5$ holes of the door. The mouth of U-bracket on the right hand towards the left door or on the left hand towards the right door.

As shown in Figure 14: Stick the label on the front of panel. Set the handle into Square axis of panel and handle point marking "O". And then using flat head screws to fix the handle on the Square axis of panel. Tighten the screw.

8.5 The installation of GLC, GLCK, GLZ, GLB inside operation is same as GL-1000A inside operation.

8.6 The installation of GLB outside operation and GLH behind box operation:

630A and below 630A is same as GL-630A outside operation.

1000A and above 1000A is same as GL-1000A outside operation.

8.7 The installation of GLC, GLCK, GLZ outside operation is same as GL-1000A outside operation.

9. USE AND MAINTAIN

9.1 Switch should be mounted vertically and in accordance with the capacity of electrical equipment to select the rated current. Before installation should check nameplate if it meets the use requirement. Switch must be disconnected in the installation. It means switch in "O" position.

9.2 Switch terminal or wiring copper bus should be surrounded by insulator to prevent switch short circuit.

9.3 If the Extended shaft is not coaxial with the cabinet door's handle hole, must not pull the Extended shaft to avoid damage to the internal parts of the switch. However, should adjust the place of switch.

9.4 The handle and machine of outside operation have interlock protection function: When switch closed, cabinet door could not open. When cabinet door open, switch could not be closed. If no need interlock, you can rub down the black Column pin that was inserted in a side of extended shaft or convex rib of Joint sleeve.

9.5 Operating handle clockwise rotation will enable the switch closed. Operating handle counter-clockwise rotation will enable the switch disconnect. Before operation, should pay attention to the indicating status of switch: In position "O", switch can only be clockwise rotation to make it closed. In position "I", switch can only be counter-clockwise rotation to make it disconnect.

9.6 To prevent misoperation, no matter switch in which position, all can use the padlock to lock the handle and then the handle will no longer be able to rotate.

9.7 The friction place of operating mechanism should be brushed with oil regularly to make it flexible and to increase using life. If switch is seriously damaged, you must stop using immediately.

10. ORDERING INSTRUCTION

Customer should offer us the detail information as follows:

10.1 Name of the product, model, specification and quantity.

10.2 In case of special installation conditions or special purpose, you should provide the corresponding technical information or negotiate with our company.